



COST Action CA15202
COST Association

COST Grant System
19 January 2017

Action CA15202 Fact Sheet

Title

Self-healing As preventive Repair of COncrete Structures

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Details

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Start of Action: 30/09/2016	Entry into force: 11/04/2016
End of Action: 29/09/2020	CSO approval date: 26/02/2016

Objectives

The search for smart self-healing materials and preventive repair methods is justified by the increasing sustainability and safety requirements of structures. The appearance of small cracks in concrete is unavoidable, not necessarily causing a risk of collapse for the structure, but certainly accelerating its degradation and diminishing the service life and sustainability of constructions. That loss of performance and functionality promote an increasing investment on maintenance and/or intensive repair/strengthening works. The critical nature of such requirements is signified by their inclusion as priority challenges in the European Research Program. The first focus of this proposal is to compare the use of self-healing capabilities of concrete with the use of external healing methods for repairing existing concrete elements. Despite the promising potential of the developed healing technologies, they will be real competitive alternatives only when sound and comparative characterization techniques for performance verification are developed, being this SARCOS's second focus. The third focus deals with modelling the healing mechanisms taking place for the different designs and with predicting the service life increase achieved by these methods. SARCOS COST Action will be leaded by research institutions searching on different self-healing technologies and repair solutions for extending service life of new and existing concrete structures, with high expertise in developing characterization techniques. Also specialists on modelling healing mechanisms and experts on numerical service life prediction models contribute for the Action's success. This composition provides a solid framework to advance in implementing innovative and sustainable solutions for extending the service life of concrete structures.



Parties							
Country	Date		Country	Date		Country	Date
Belgium	25/04/2016		Czech Republic	13/09/2016		Denmark	19/10/2016
France	07/04/2016		Germany	30/03/2016		Greece	11/04/2016
Israel	09/03/2016		Italy	10/05/2016		Latvia	13/10/2016
Netherlands	05/10/2016		Poland	13/06/2016		Portugal	02/05/2016
Serbia	11/09/2016		Slovenia	08/09/2016		Spain	03/05/2016
fYR Macedonia	18/08/2016					Estonia	15/03/2016
						Hungary	09/11/2016
						Lithuania	08/06/2016
						Romania	07/06/2016
						United Kingdom	04/05/2016

Total: 21

Intentions to accept the MoU							
Country	Date		Country	Date		Country	Date

Total: 0

Working Groups
None

Website
None

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